UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/683,783	10/10/2003	Liang-Jie Zhang	SOM920030003US1	1792

59559 7590 01/02/2009

RYAN, MASON & LEWIS, LLP
90 FOREST AVENUE
LOCUST VALLEY, NY 11560

EXAMINER	
LY, CHEYNE D	
ART UNIT	PAPER NUMBER
2168	
MAIL DATE	DELIVERY MODE
01/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/683,783	ZHANG ET AL.	
	Examiner	Art Unit	
	CHEYNE D. LY	2168	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE *3* MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *17 October 2008*.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-8,10-22,24 and 25* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-8, 10-22, 24, and 25* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

1. Applicants' arguments filed October 17, 2008 have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

2. Claims 1-8, 10, 15-22, 24, 25, and 25 are examined on the merits.

3. Applicant's arguments with respect to claims 1-8, 10, 15-22, 24, 25, and 25 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1, 2, 7, 8, 10, 15, 16, 21, 22, 24, 25, and 35 are rejected under 35 U.S.C. 102(e) as being anticipated by Lior (US 2003/0220925 A1).

6. In regard to claim 1, Lior discloses a method of discovering services available in accordance with an information network, comprising the steps of:

> Obtaining a request from a client to perform a search for one or more services (page 3, lines 4-6, e.g. search a specific...query a UDDI directory for WSDL documents);

Searching a chain of one or more service description documents, based on the client request (page 3, lines 4-6, e.g. search a specific...query a UDDI directory for WSDL documents, and page 4, [0058]), wherein the searching step further comprises determining one or more changed service description documents in the set of one or more service description documents by detecting changes in one or more attributes of the one or more changed service description documents (page 3, [0055], e.g. a WSDL monitoring unit…for changes to existing WSDL documents), wherein the searching step is configurable to be performed at different levels of granularity (page 3, [0049], e.g. tree structure, and page 4, [0056], e.g. The WSDL document monitor unit may also receive a signal from an application programming interface (API) or via the configuration user interface to execute a check on a specific file, or on all the files in a given location, or all locations);

Making a result of the search available to the client (page 4, [0064], e.g. alerting an administrator that a change has occurred...updating a Web services information file).

7. In regard to claim 2, Lior discloses comparing at least a portion of a current instance of the chain of one or more service description documents to at least a portion of a previous instance of the set of one or more service description documents (pages 3-4, [0056], e.g. check the last modification date of the file…compute a checksum which is compared to a previous checksum).

8. In regard to claim 7, Lior discloses the step of obtaining information used to control performance of the search step (page 4, [0059] to [0060], e.g. parse the WSDL document to extract information).

9. In regard to claim 8, Lior discloses searching step is performed in association with multiple data sources (page 2, [0039], e.g. file system or a UDDI).

10. In regard to claims 10, 15, 16, 21, 22, 24, and 25, and 35, Lior discloses apparatus and article of manufacture (page 5, [0068]) for implementing the above-cited method.

Claim Rejections - 35 USC § 103

11. Claims 5, 6, 19, and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lior (US 2003/0220925 A1) as applied to claims 1, 2, 7, 8, 10, 15, 16, 21, 22, 24, 25, and 35 above, and further in view of Brittenham P. (2002) (Brittenham hereafter).

12. In regard to claims 5 and 19, Lior describes all the limitations to claims 5 and 9 except for the limitation "aggregating a plurality of result set…" Brittenham describes the step of aggregating a plurality of result sets obtained during the searching step into an aggregated result (page 2, 4th paragraph, and page 3, lines 6-9, page 5, Linking to WS-Inspection documents section), and then making the aggregated result available to the client (page 2, lines 3-6). Lior describes an improvement to provide a novel method for automatically provisioning Web services access management systems, and maintaining those policies as the Web services change, to maintain overall efficacy while reducing the workload of the administrator (page 1, [0008]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to improve conventional Web services technologies to address the needs of distributed systems by using WS-Inspection document as described by Brittenham with the web monitoring described by Lior to detect changes.

13. In regard to claims 6 and 20, Lior describes all the limitations to claims 6 and 20 except for the limitation "plurality of result sets…" Brittenham describes the step of aggregating a

plurality of result sets obtained during the searching step into an aggregated result (page 5, Linking to WS-Inspection documents section). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to improve conventional Web services technologies to address the needs of distributed systems by using WS-Inspection document as described by Brittenham with the web monitoring described by Lior to detect changes.

14. Claims 3, 4, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lior (US 2003/0220925 A1) as applied to claims 1, 2, 7, 8, 10, 15, 16, 21, 22, 24, 25, and 35 above, and further in view of Lim et al. (2001) (Lim hereafter).

15. In regard to claims 3 and 17, Lior describes all the limitations to claims 3 and 17 except for the limitation "service documents is stored in a cache." Lim describes the caching of the entire web on a local file system for detecting and updating web document changes (page 141, Section 6). Lior describes an improvement to provide a novel method for automatically provisioning Web services access management systems, and maintaining those policies as the Web services change, to maintain overall efficacy while reducing the workload of the administrator (page 1, [0008]). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to improve conventional Web services technologies to address the needs of distributed systems by using WS-Inspection document as described by Lim with the web monitoring described by Lior to detect changes.

16. In regard to claims 4 and 18, Lior describes all the limitations to claims 4 and 18 except for the limitation "one or more service description documents is used to update a cache." Lim describes the caching of the entire web on a local file system for detecting and updating web document changes (page 141, Section 6). Therefore, it would have been obvious to one of

ordinary skill in the art at the time of the invention to improve conventional Web services technologies to address the needs of distributed systems by using WS-Inspection document as described by Lim with the web monitoring described by Lior to detect changes.

CONCLUSION

17. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

18. A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

19. Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of

the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

20. For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199. The USPTO's official fax number is 571-272-8300.

21. Any inquiry concerning this communication or earlier communications from the examiner should be directed to C. Dune Ly, whose telephone number is (571) 272-0716. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

22. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Vo, can be reached on (571) 272-3642.

/Cheyne D Ly/
Primary Examiner, Art Unit 2168